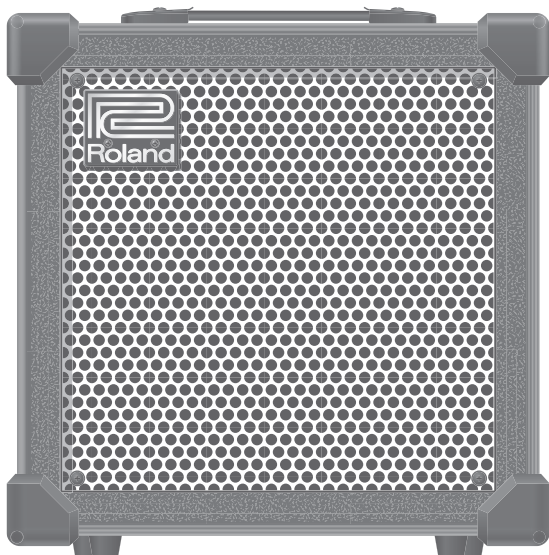


Roland

Owner's Manual

Guitar Amplifier

CUBE CUBE
40XL 80XL



Owner's Manual

Bedienungsanleitung

Mode d'emploi

Manuale dell'utente

Manual del usuario

Manual do proprietário

Gebruikershandleiding

English

Deutsch

Français

Italiano

Español

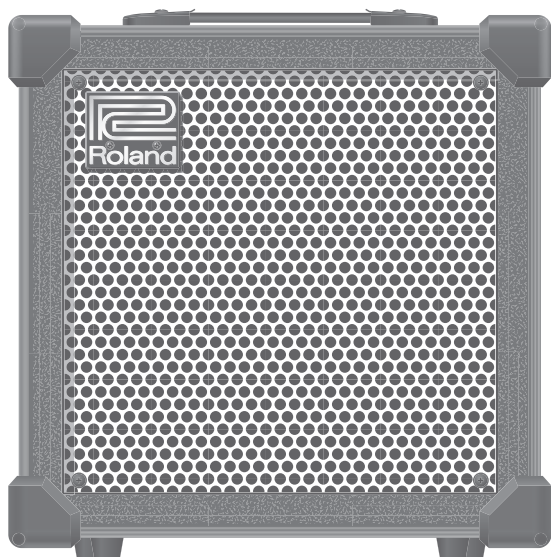
Português

Nederlands

Owner's Manual

Guitar Amplifier

CUBE 40XL CUBE 80XL



CUBE-40XL

This is a compact, high-performance DSP guitar amp with 40 W output and a 25 cm (10-inch) speaker.

CUBE-80XL

This is a high-performance DSP guitar amp with 80 W output and a 30 cm (12-inch) speaker.

Two-channel switchable design with JC CLEAN channel and LEAD channel, plus a Solo function (p. 12)

- The JC CLEAN channel delivers clean sounds, and the LEAD channel gives you acoustic, clean, crunch, high-gain, and an original “dyna-amp” sound. A total of ten amp types are provided by the CUBE-40XL, and eleven types are provided by the CUBE-80XL, covering the needs of a wide range of musical styles.
- Use the Solo function to store and recall the sound settings you create. This is a great way to switch between backing sounds and solo sounds while you perform.
- Foot switch (optional) can be used to switch EFX/SOLO on and off

Composite Object Sound Modeling (COSM) is Roland’s innovative and powerful sound modeling technology. COSM analyzes the many factors that make up the original sound, such as the electrical and physical characteristics of the original, and then produces a digital model that can reproduce the same sound.

Looper function lets you record, play back, and overdub the phrases you perform (p. 14)

- You can record a phrase you play, and then enjoy performing with that phrase as your backing. Maximum recording time is approximately 80 seconds.

“EFX” provides five types of effects, plus independent reverb and delay (p. 6, p. 7)

- Onboard EFX section includes 5 types of digital effect, CHORUS, FLANGER, PHASER, TREMOLO, and HEAVY OCTAVE.
- You can use a foot switch (optional) to turn EFX, delay, and reverb on/off..

A tuner function is included (p. 11)

- An easy-to-operate tuner is built in. This even supports flat tuning and seven-string guitars. Chromatic tuning is possible, too.

Equipped with an AUX IN jack, which is convenient for your practice sessions (p. 9)

- Use this to play along with sounds from CD players and digital audio players.

Before using this unit, carefully read the sections entitled: “IMPORTANT SAFETY INSTRUCTIONS” (inside front cover), “USING THE UNIT SAFELY” (p. 2), and “IMPORTANT NOTES” (p. 3). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner’s manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices

| | |
|------------------|--|
| ⚠ WARNING | Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. |
| ⚠ CAUTION | Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets. |

About the Symbols

| | |
|--|--|
| | The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger. |
| | The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled. |
| | The Ⓜ symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet. |

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

(for CUBE-80XL only)

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.

Do not open or perform any internal modifications on the unit.

Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

Never install the unit in any of the following locations.

- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Humid; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness.

Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.

The unit should be connected to a power supply only of the type described as marked on the rear side of unit.

Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.

Do not place containers containing liquid on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

⚠ WARNING

Immediately turn the power off, remove the power cord from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:

- The power-supply cord or the plug has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

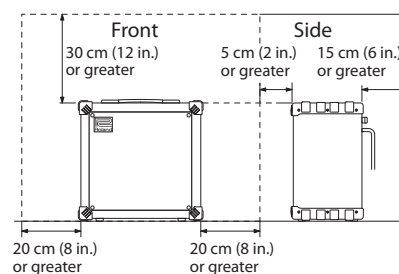
In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

Protect the unit from strong impact.

(Do not drop it!)

(for CUBE-80XL only)

A small amount of heat will radiate from the unit during normal operation. Do not use the unit in an area with less than the air space shown below.



Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

⚠ CAUTION

The unit should be located so that its location or position does not interfere with its proper ventilation.

Always grasp only the plug on the power-supply cord when plugging into, or unplugging from an outlet.

At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

Never climb on top of, nor place heavy objects on the unit.

Never handle the power cord or its plug with wet hands when plugging into, or unplugging from, an outlet.

Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.

Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 7).

Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.

The cooling vents on the rear side of the unit may become hot, so take care to avoid burns.

Do not remove the speaker grille and speaker by any means. Speaker not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.

IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.
- Although the LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Do not allow rubber, vinyl, or similar materials to remain on this unit for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.
- Do not put anything that contains water (e.g., flower vases) on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Repairs and Data

- Please be aware that unit settings or the contents of the solo function stored in memory may be lost when the unit is sent for servicing. Important data should always be written down on paper. Roland assumes no liability with respect to recovery of any lost data.

Additional Precautions

- Please be aware that unit settings or the contents of the solo function stored in memory can be irretrievably lost as a result of a malfunction or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically write down on paper any important data you have stored in the unit's memory.
- Roland Corporation assumes no liability with respect to recovery of any lost unit settings or contents of the solo function stored in memory.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.
- No sound is output from this unit's speaker or any external speaker when the RECORDING OUT/PHONES jack is in use.
- Wrap the power cord around the cord hook when transporting or storing the unit.
- For CUBE-80XL only
When connecting to an external speaker, make sure the speaker conforms to the following specifications.
Impedance: 8 ohms or less
Allowable power input: 80 watts or greater
- For CUBE-80XL only
Only use speaker cable to connect the speaker. Do not use any shielded cable designed for use with guitars.
- For CUBE-80XL only
Do not insert hands, fingers, etc, into the openings in the unit's rear panel. In particular, if the unit is to be used in households with small children, always provide adult supervision to ensure that children keep their hands and feet out of these openings.

Copyright

- Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

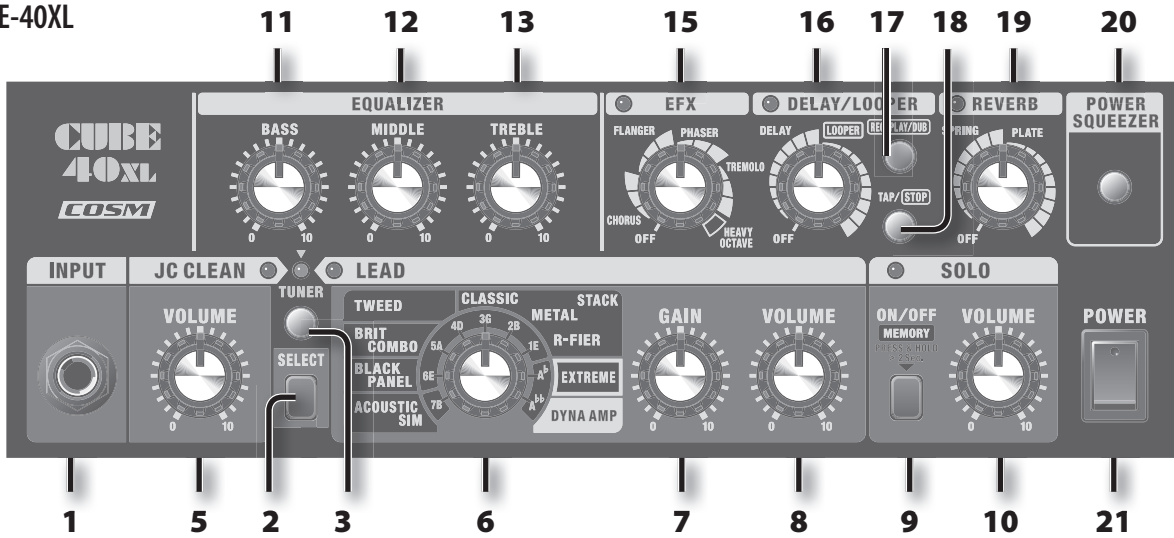
Trademarks

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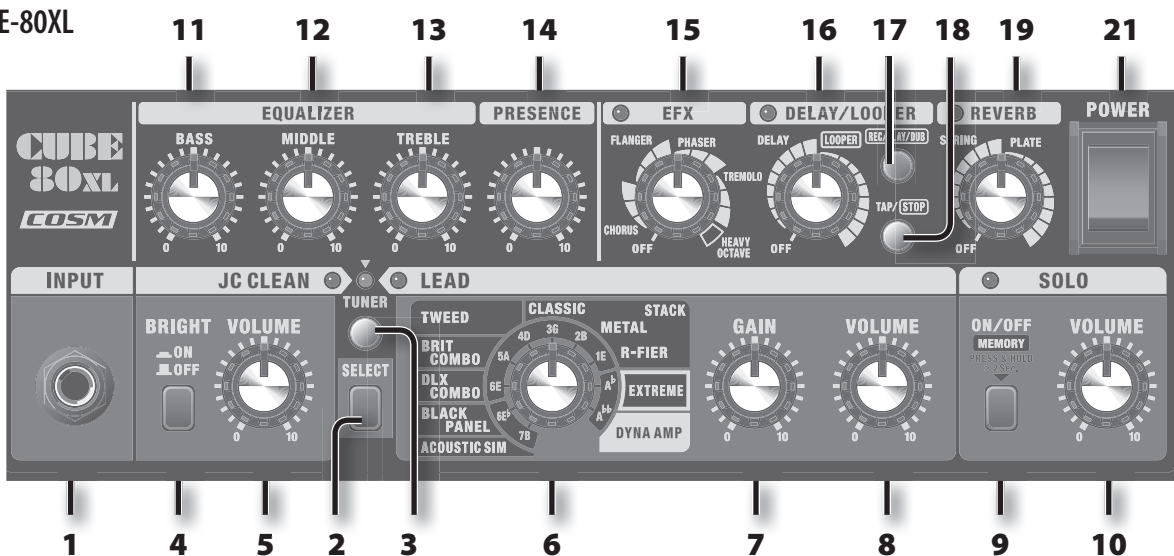
Panel Descriptions

Control Panel

CUBE-40XL



CUBE-80XL



1. INPUT Jack

Connect your electric guitar here.

2. [SELECT] Switch

Switches between the JC CLEAN and LEAD channels.

The indicator shows you which channel is selected.

Channels can be switched using optional BOSS FS-5U, FS-5L or FS-6 foot switches.

3. [TUNER] Switch

Use this when you want to tune your guitar. When you turn on the switch, it will light red, and you'll be able to use the Tuner function.

For more detailed information, refer to "Using the Tuner Function" (p. 11)

JC CLEAN Channel

This is a model of Roland's famous JC-120 Jazz Chorus guitar amplifier. The ultra-clean, ultra-flat sound offers a smooth feel. This amp is ideal for creating sounds in combination with a multi-effects device.

4. [BRIGHT] Switch (CUBE-80XL only)

This makes the mid and high ranges more brilliant, for a crisper sound.

5. [VOLUME] Knob

This adjusts the volume level of the JC CLEAN channel.

As an original function on this unit, this can produce a powerful crunch at volume levels near the maximum.

LEAD Channel

6. Type switch

Use this to select the COSM amp type.

If the Tuner function is on, use this to select the string that you're tuning.

| Type | Description |
|----------------------------|---|
| ACOUSTIC SIM | This is an original amp type that includes an acoustic simulator. It transforms the sounds from your electric guitar into a clear, refined acoustic-guitar sound. Using this type together with a single-coil pickup in the front position produces optimal sound quality. If you're using humbucker pickups, turn down the equalizer's BASS and MIDDLE controls slightly. |
| BLACK PANEL | This is modeled on the classic Fender Twin Reverb amplifier. It's used in a wide range of musical styles, from country to blues, jazz, and rock. It features rich lows and a bright high end. |
| DLX COMBO (CUBE-80XL only) | This is modeled on the Fender Deluxe Reverb amplifier. This amp finds use in a full range of genres, including surf music, blues, country, jazz, soul, and hard rock. It features clear, clean tones and sparkling overdrive at high volumes. |
| BRIT COMBO | This is modeled on the Vox AC-30TB. This is the rock amplifier that created the Liverpool sound of the 1960s. It can produce a broad range of sounds, from clean to overdrive. |
| TWEED | This is modeled on the vintage Fender Tweed Bassman 4 x 10" Combo. It produces a clear mid to upper range with a fat low end, and its unique crunch tones with persistent distortion have earned it a loyal following among blues and rock guitarists. |
| CLASSIC STACK | This is modeled on the features of a Marshall JMP 1987. Used extensively in hard rock in the 1970s, this is truly the perfect amp for the "top rock" guitar sound. |
| METAL STACK | This is modeled on the Peavey EVH 5150. This is a high-gain amp, so you can get heavy distortion and sustain even at low volumes. |
| R-FIER | This super high-gain amp is modeled on the Mesa/Boogie Rectifier. This is a super high-gain amp. It's capable of producing slash metal, grunge, and a wide range of other lead sounds. |
| EXTREME | This original high-gain amp delivers thick lows and intense distortion while still preserving the sound's clear definition. |

| Type | Description |
|----------|--|
| DYNA AMP | This is an original amp type that lets you obtain unprecedented tonal changes according to your picking dynamics. Soft picking produces a transparent clean amp sound, whereas hard picking yields a deeply distorted high-gain amp sound. Once the sound is distorted, the tone then changes according to the force used in picking, greatly expanding your range of expression. Setting the [GAIN] knob at the optimal position provides maximum effectiveness. Start with the [GAIN] knob centered. Then adjust the [GAIN] knob so that soft picking yields a clean tone and hard picking produces heavy distortion. |

* The product names mentioned in this document are trademarks or registered trademarks of their respective owners, and are not related to Roland Corporation. In this manual, these names are used because it is the most practical way of describing the sounds that are simulated using COSM technology.

7. [GAIN] Knob

This adjusts the distortion level for the LEAD channel.

8. [VOLUME] Knob

This adjusts the volume level for the LEAD channel.

SOLO Function

This lets you save the panel settings for sounds you create (such as amp type, gain, equalizer, and various effects) and call them up later.

On the CUBE-40XL/CUBE-80XL, this function is called "SOLO."

The SOLO function is handy in situations like these:

- When you want to switch the amp type and effect at the same time.
- When you want to switch the equalizer settings and volume level at the same time.

You can store one setting each for the JC CLEAN channel and for the LEAD channel.

9. SOLO [ON/OFF] Switch

This saves panel settings and calls up it.

10. [VOLUME] Knob

This adjusts the volume level for the called-up settings.

* For information on how to use the SOLO function, refer to "Using the SOLO Function" (p. 12)

EQUALIZER

11. [BASS] Knob

This adjusts the sound level of the low-frequency range.

12. [MIDDLE] Knob

This adjusts the sound level of the middle-frequency range.

13. [TREBLE] Knob

This adjusts the sound level of the high-frequency range.

- * When the LEAD channel Type switch is set to BLACK PANEL, DLX COMBO (CUBE-80XL only), or TWEED, setting [BASS] knob, [MIDDLE] knob and [TREBLE] knob all to 0 (zero) stops all sound.

PRESENCE (CUBE-80XL only)

14. [PRESENCE] Knob

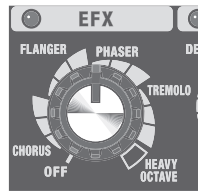
This gives the midrange and high end a more lustrous contour. This is effective when you want to make the sound more airy and open.

EFX (Effects)

15. [EFX] (Effects) Knob

You can adjust the intensity of five types of effects—chorus, flanger, phaser, tremolo, and heavy octave—by adjusting the positioning of this knob.

The indicator lights up when this is on, and goes out when it's off. You can also switch this on and off using an optional footswitch pedal.



- * The scale indications for CHORUS, FLANGER, PHASER, and TREMOLO on the panel are just a general guide. Be sure to check the actual sound as you adjust the effect.

| Knob Position | Description |
|---------------|--|
| CHORUS | This adds a slightly detuned sound to the original sound, giving the sound greater breadth and fullness. |
| FLANGER | This creates a flanging effect that creates a sort of spinning sensation with the sound. |
| PHASER | This adds a phase-shifted signal to the original sound, giving the sound a swirling sensation. |
| TREMOLO | This effect produces cyclical changes in the volume level. |
| HEAVY OCTAVE | This adds sound lowered by an octave to the original sound. Since you can play chords even when using this effect, you can use it to fatten the sound of your chordal playing as well. |

DELAY/LOOPER

16. [DELAY/LOOPER] Knob

You can switch to DELAY or the LOOPER function by positioning this knob.

When the knob is at DELAY, this functions as a delay.

When the knob is positioned at LOOPER, this functions as a looper.

The indicator lights up when delay or looper is on and goes out when it's off.



To use Delay

16. [DELAY/LOOPER] Knob

Set the knob in the DELAY position to turn Delay on. The position of the knob within this range adjusts the volume of the delay sound.

You can also switch delay on and off using an optional footswitch pedal.

- * The scale indications for DELAY and LOOPER are just a general guide. Be sure to check the actual sound as you adjust the effect.

17. [REC/PLAY/DUB] Switch

This will blink in synchronization with the delay time.

You can also use this to specify a short delay time in the range of 90—30 ms.

18. [TAP] Switch

Use this to set the delay time. When you press the switch twice, the delay time will be set to the time interval at which you pressed the switch. The maximum length is 2000 ms.

Setting the Delay Time for Short Delay

If you hold down the switch for one second or longer, the delay time will be set to 30 ms. Each time you then press the [REC/PLAY/DUB] switch, the delay time will change over four steps (30 ms/50 ms/70 ms/90 ms) to a maximum of 90 ms.

- * The short delay cannot be set using the foot switch.

To use the Looper function

16. [DELAY/LOOPER] Knob

Set the knob in the Looper range to turn on the Looper function. The position of the knob within this range specifies the Looper function's playback volume.

17. [REC/PLAY/DUB] Switch

Use this switch to record, play back, and overdub.

18. [STOP] Switch

This switch stops playback or erases the recording.

If the [DELAY/LOOPER] knob is in the LOOPER range, this switch stops the Looper or erases the recording.

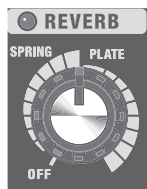
- * For details on using the Looper function, refer to "Using the LOOPER" (p. 14)
- * When the knob is positioned at LOOPER, no delay effect is applied. To use the LOOPER and delay simultaneously, refer to "Using the LOOPER Function and Delay at the Same Time" (p. 15)

[REVERB]

19. [REVERB] Knob

You can switch between use of two types of reverb by changing the position of the knob. You can adjust the intensity of the effect by varying the knob position.

The indicator lights up when reverb is on and goes out when the effect is off. You can also switch reverb on and off using an optional footswitch pedal.



| Knob Position | Description |
|---------------|---|
| SPRING | This is modeled on spring reverb. It produces the distinctive reverberations of a spring. Turning the knob clockwise makes the effect progressively more intense. |
| PLATE | This is a plate reverb. This reverb features high-end sustain. Turning the knob clockwise makes the effect progressively more intense. |

POWER SQUEEZER (CUBE-40XL only)

20. [POWER SQUEEZER] Switch

The switch lights in red when the power squeezer function is on and goes out when the power squeezer is off.

Switching on the Power Squeezer function allows you to reduce the amp's output to 2 watts.

Switching this on allows you to produce a sound that preserves the same tone and balance at an output of 2 watts, for volume levels that are more suitable for the average home.

* The Power Squeezer function affects only sounds input through the INPUT jack. It has no effect on sounds input via the AUX IN jack.

POWER

21. [POWER] Switch

This switches the power on and off.

Switching the Power On and Off

* Turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1. Make sure that all [VOLUME] knobs on the CUBE-40XL/CUBE-80XL and all the connected devices are set to 0.
2. Turn on all the devices connected to the CUBE-40XL/CUBE-80XL's input jacks (INPUT jack and AUX IN jack).
3. Turn on the CUBE-40XL/CUBE-80XL.

* Always make sure to have the volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction.

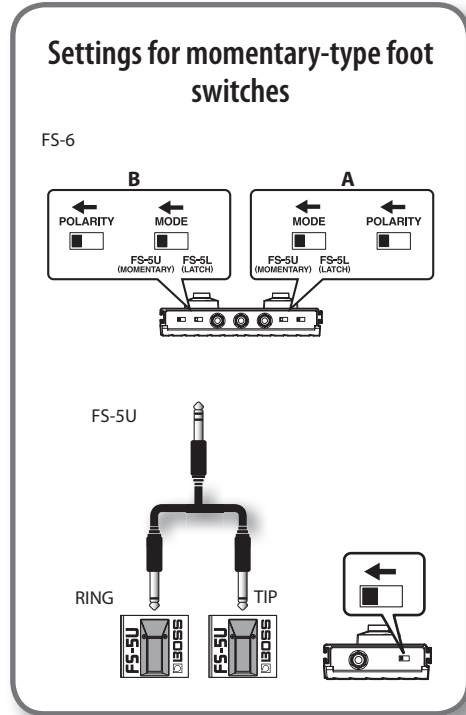
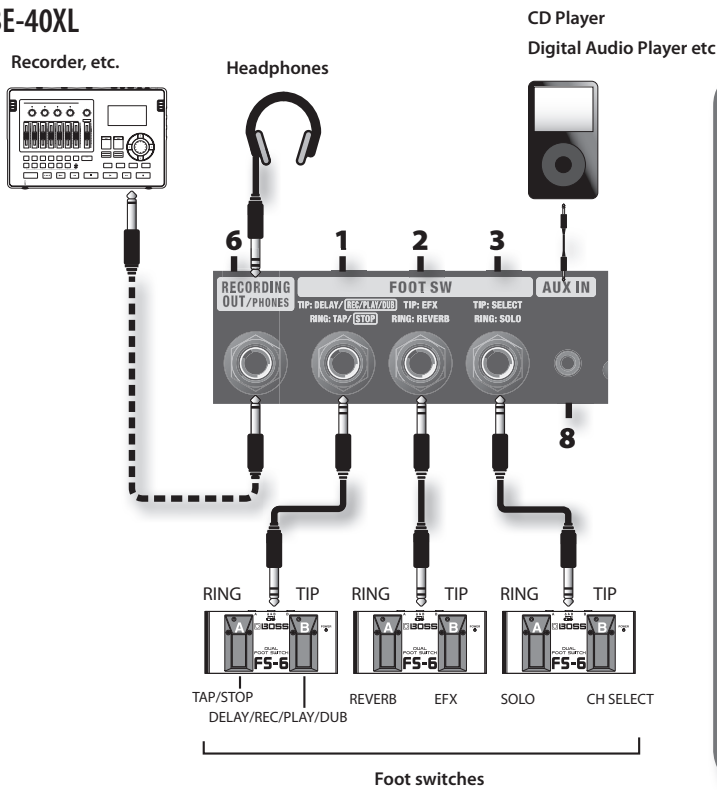
* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

4. Adjust the volume levels for the devices.
5. Before switching off the power, lower the volume on all the connected devices and then TURN OFF the devices in the reverse order to which they were switched on.

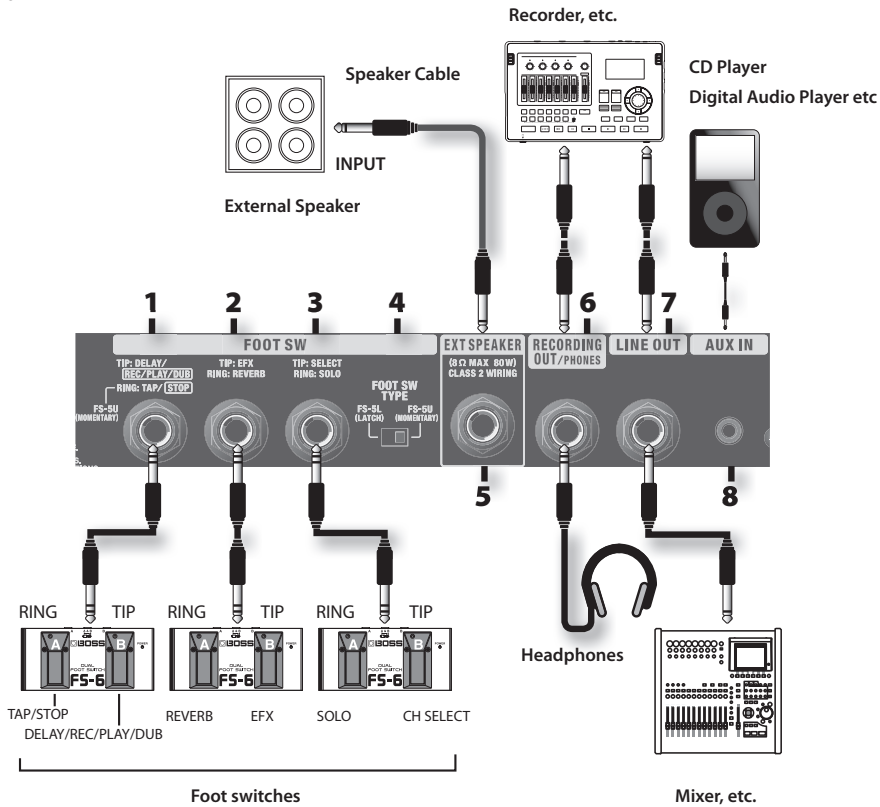
* If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. Refer to Power Supply (p. 3).

Rear Panel

CUBE-40XL



CUBE-80XL



* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

FOOT SW

By connecting a foot switch (BOSS FS-5U or FS-6; sold separately), you'll be able to use your foot to switch between channels, turn EFX, Reverb, and Delay on/off, and control the Looper function. The connection diagram at left is a connection example that shows how to use a momentary-type foot switch (FS-5U, FS-6). For details on connections and settings when using a latch-type foot switch (BOSS FS-5L; sold separately), refer to "Using a Latch-type Foot Switch" (p. 10).

1. TIP: DELAY/REC/PLAY/DUB RING: TAP/STOP

| Switch | Description |
|--------|---|
| TIP | If the [DELAY/LOOPER] knob is in the DELAY area, the Delay will be switched on/off. If the knob is in the LOOPER area, the foot switch will have the same function as the panel's [REC/PLAY/DUB] switch. |
| RING | The foot switch will have the same function as the [TAP/STOP] switch. |

* You must use a momentary-type foot switch with the RING (TAP/STOP) of this jack. It will not work correctly with a latch-type foot switch (p. 10).

2. TIP: EFX RING: REVERB

| Switch | Description |
|--------|---|
| TIP | The foot switch will turn on/off the effect selected by the [EFX] knob. |
| RING | The foot switch will turn on/off the reverb set by the [REVERB] knob. |

3. TIP: CH SELECT RING: SOLO

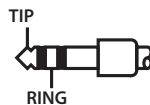
| Switch | Description |
|--------|--|
| TIP | The foot switch will switch between the JC CLEAN channel and the LEAD channel. |
| RING | The foot switch will turn SOLO on/off. |

4. [FOOT SW TYPE] Switch (CUBE-80XL only)

This selects the type of foot switch that is connected.

When shipped from the factory, the CUBE-40XL's FOOT SW TYPE is set to the momentary type. For details on how to change this setting, refer to "Using a Latch-type Foot Switch" (p. 10).

* The CUBE's FOOT SW (foot switch) jacks are TRS type jacks, and support plugs of the type shown in the illustration. Use TRS cables to connect your foot switch.



EXT SPEAKER (CUBE-80XL only)

5. EXT SPEAKER Jack

This is for connecting an external speaker. When an external speaker is connected, sound is played both from the external speaker and from the unit's built-in speaker.

* When connecting to an external speaker, make sure the speaker conforms to the following specifications.

Impedance: 8 ohms or less
Allowable power input: 80 watts or greater

* Only use speaker cable to connect the speaker. Do not use any shielded cable designed for use with guitars.

RECORDING OUT/PHONES

6. RECORDING OUT/PHONES Jack

This functions either as an output jack for recording or as a phones jack.

This features COSM speaker modeling, enabling production of impressive guitar sound.

Adjust the volume using the [VOLUME] knobs for the JC CLEAN and LEAD channels and the SOLO function.

* When a plug is connected to this jack, no sound is played from either the unit or any connected external speaker. This is handy at night or in other situations when you want to avoid high-volume sound from the speakers.

When using as an output jack for recording

Use a monaural 1/4" phone plug to connect a recorder or other recording device.

When using as a headphones jack

Connect headphones.

LINE OUT (CUBE-80XL only)

7. LINE OUT Jack

This is for connecting a PA system, recorder, or other external equipment.

This features COSM speaker modeling, enabling production of impressive guitar-amp sound.

You can use this in conjunction with an external PA system, or to record your performance via direct line while monitoring the sound from the CUBE's speaker.

Adjust the output level using the [VOLUME] knobs for the JC CLEAN and LEAD channels and the SOLO function.

* The sound from AUX IN is not output from LINE OUT.

AUX IN

8. AUX IN Jack

This lets you connect a CD player, digital audio player, electronic instrument, or other such device and play it at the same time as the guitar.

This accepts a stereo miniature phone plug. However, the speaker and RECORDING OUT/PHONES output is monaural. Use a cable (sold separately) that's appropriate for the device you're connecting.

* Determine the volume level by adjusting the volume control of the connected device.

* When connection cables with resistors are used, the volume level of equipment connected to the AUX IN jack may be low. If this happens, use connection cables that do not contain resistors.

Using a Latch-type Foot Switch

The CUBE-40XL/CUBE-80XL also support latch-type foot switches. If you're using a latch-type foot switch, make the following settings.

FOOT SW TYPE setting

There are two types of foot switches.

| Type | Operation |
|--|---|
| Momentary type (BOSS FS-5U, etc) | This type remains on (or off) while depressed and switches off (or on) when released. |
| Latch type (BOSS FS-5L, etc.) | This type switches on or off each time it is depressed. |

* The BOSS FS-6 can operate as either a momentary or latch-type pedal switch.

CUBE-40XL

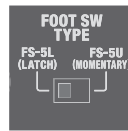
At the factory settings, the momentary type is selected. You can change this setting as follows.

- To specify the latch type
Turn on the power while holding down the [TAP/STOP] switch.
- To specify the momentary type
Turn on the power while holding down the [REC/PLAY/DUB] switch.

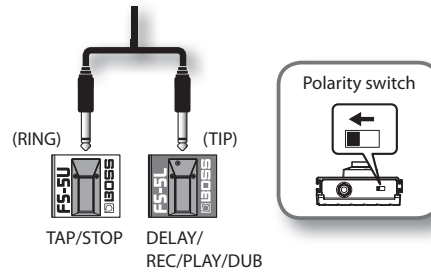
CUBE-80XL

Set the [FOOT SW TYPE] switch on the rear panel to FS-5L (LATCH).

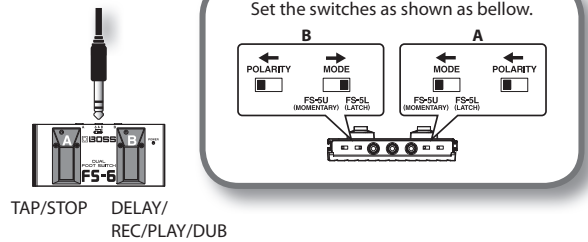
* The setting you specify is remembered even while the power is turned off.



BOSS FS-5L+FS-5U



BOSS FS-6



* Even if FOOT SW TYPE is set to FS-5L (LATCH), you must always use a momentary-type foot switch for TAP/STOP. This function will not work correctly with a latch-type foot switch.

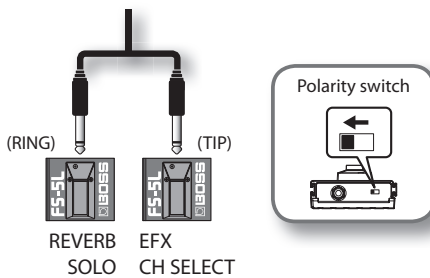
Important Notes When Using a Latch-type Footswitch Pedal

The on/off state of the footswitch pedal takes precedence over the control panel for switching EFX, delay, or reverb on and off.

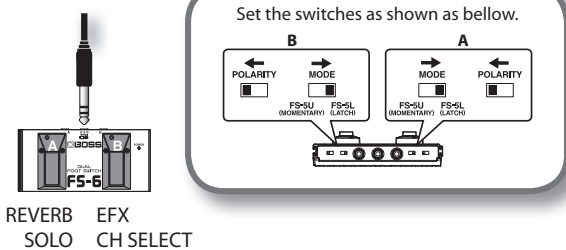
However, the on or off states of EFX, delay, or reverb stored in memory using the SOLO function take precedence when saved SOLO-function panel settings are called up. Such cases may result in conflicting indicator displays on the control panel and the footswitch pedal, but this is not a malfunction.

Foot Switch Settings

BOSS FS-5L



BOSS FS-6



Convenient Applications

You can use either of the following settings to control operation when the panel settings for EFX, delay, and reverb are called up using the SOLO function.

Foot switch priority mode

Make the on/off state of the footswitch pedal always take priority.

To make the setting:
Hold down the [SELECT] switch and switch on the power.

Memory priority mode (factory setting)

Make the on/off state saved using the SOLO function take priority.

To make the setting:
Hold down the [TUNER] switch and switch on the power.

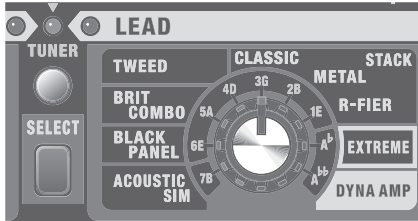
* The changed setting remains in memory after the power is switched off.

Using the Tuner Function

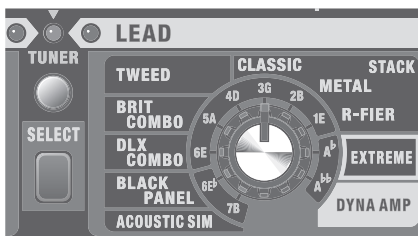
CUBE-40XL and CUBE-80XL are equipped with a tuner function. In addition to manual tuning, you can also use it as a chromatic tuner.

- * Use manual tuning when the strings are substantially out of tune (such as after changing strings).

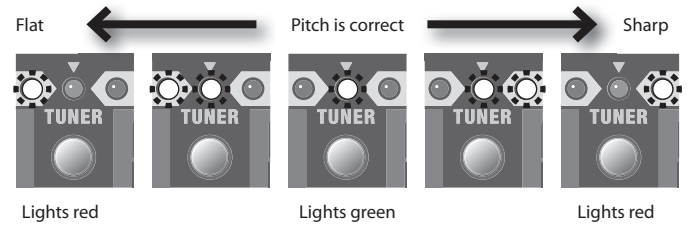
CUBE-40XL



CUBE-80XL



3. Play a single note on the open string that you want to tune.
Tune the string until the green indicator lights.



- * The red indicator blinks if the pitch is substantially out of tune.

4. When you have finished tuning, press the [TUNER] switch once again.

Chromatic Tuning

If you hold down the [TUNER] switch for one second or longer, the [TUNER] switch blinks and the unit becomes usable as a "chromatic tuner," which automatically determines the name of the note closest to the one played.

As with manual tuning, chromatic tuning allows you to play a single note on the string that you want to tune. Tune the string until the green indicator lights.

Manual Tuning

1. Press the [TUNER] switch.

The unit enters the Tuner mode and the TUNER switch lights up.

Once in the Tuner mode, no sound is played from the speaker, the REC OUT/PHONES jack, or the LINE OUT jack.

- * The sound input to the AUX IN jack is output.

2. Use the TYPE switch to select the string that you want to tune.

| Knob Position | Description |
|---------------|--|
| 7B | Open seventh string of a seven-string guitar with an additional low string (B) |
| 6E♭ | Open sixth string (E♭) (CUBE-80XL only) |
| 6E | Open sixth string (E) |
| 5A | Open fifth string (A) |
| 4D | Open fourth string (D) |
| 3G | Open third string (G) |
| 2B | Open second string (B) |
| 1E | Open first string (E) |
| A♭ | Open fifth string (semitone down) (A♭) |
| A | Open fifth string (whole tone down) (G) |

- * The reference pitch is A=440 Hz. This cannot be changed.

Using the SOLO Function

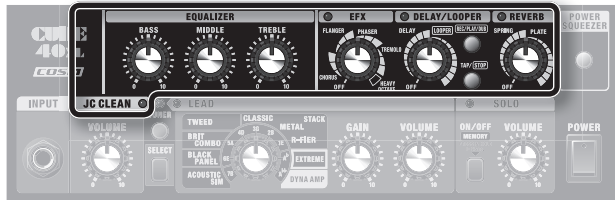
You can save and call up the panel settings (those enclosed by the line in the figure) for sounds you create. On this unit, this function is called "SOLO." This is a convenient way to switch between a backing sound and a solo sound.

You can save one setting each for the JC CLEAN channel and for the LEAD channel. You can switch between a total of four sounds.

With the factory settings, the sample setting "Space Clean" is saved for the JC CLEAN channel, and the "Extreme" setting (p. 16) is saved for the LEAD channel.

CUBE-40XL

JC CLEAN



LEAD

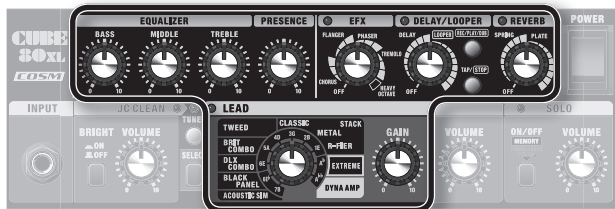


CUBE-80XL

JC-CLEAN



LEAD

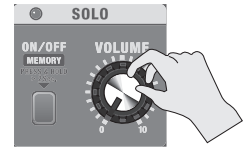


Saving the Panel Settings

1. Set the SOLO [VOLUME] knob to 0.

NOTE

If the SOLO volume is set high, the sound may be unexpectedly loud when the panel settings are saved. Before saving, lower the volume to 0.



2. Create a sound.
3. Press and hold the SOLO [ON/OFF switch] on the panel for several seconds.

The indicator will blink. When the panel settings have been saved, the indicator will change from blinking to lit.

- * Never switch off the power while the indicator is blinking.



4. Use the SOLO [VOLUME] knob to adjust the volume.

- * Saved panel settings remain in memory even after the power is turned off.

Recalling the Saved Sound

1. With SOLO off, press the SOLO [ON/OFF] switch.

The SOLO indicator will light, and the saved panel settings will be recalled. The sound you created and saved for JC CLEAN will be recalled if the JC CLEAN channel is selected, and the sound you created and saved for LEAD will be recalled if the LEAD channel is selected.

- * If panel settings have not been saved, or if you're using the CUBE for the first time, the factory settings will be recalled.

Editing the saved settings

1. Press the SOLO [ON/OFF] switch to call up the saved settings.
2. Turn the panel knob for the item you want to change, and modify the setting.

The SOLO indicator goes out briefly when the position of the knob coincides with the position stored in memory.

3. Hold down the SOLO [ON/OFF] switch for several seconds.

The indicator will blink. When the panel settings have been saved, the indicator will change from blinking to lit.

- * Never switch off the power while the indicator is blinking.
- * Once the new settings have been saved, the previous settings in effect before the changes cannot be called up again.
- * To quit without saving the changes, press the SOLO [ON/OFF] switch or the [SELECT] switch.

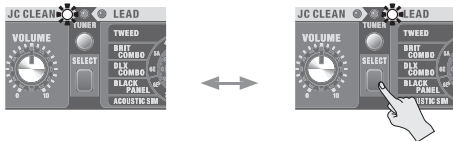
Switching the SOLO Function and the LEAD and JC CLEAN Channels

You can use the [SELECT] switch and the SOLO [ON/OFF] switch to switch between the following four sounds

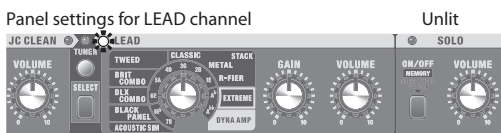
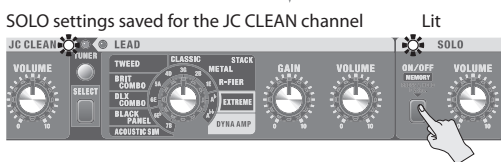
- Current JC CLEAN panel settings
- The SOLO sound you created and saved for JC CLEAN
- Current LEAD panel settings
- The SOLO sound you created and saved for LEAD

| Channel | SOLO OFF | SOLO ON |
|----------|---------------------------------|---|
| JC CLEAN | Current JC CLEAN panel settings | The SOLO sound you created and saved for JC CLEAN |
| LEAD | Current LEAD panel settings | The SOLO sound you created and saved for LEAD |

Use the [SELECT] switch to switch between the JC CLEAN channel and LEAD channel.



Use the SOLO [ON/OFF] switch to switch between the current panel settings and the saved settings.



* Note the following if you've set FOOT SWTYPE (p. 10) to FS-5L (LATCH)

- If a foot switch is connected to the SELECT/SOLO jack, the panel's [SELECT] switch and SOLO [ON/OFF] switch will be inoperable.
- If SOLO is on, and a foot switch is connected to the EFX/REVERB or DELAY/REC/PLAY/DUB/TAP/STOP jack, the foot switch's indicator may not match the on/off status of the CUBE's EFX, REVERB, or DELAY. If you want the on/off status of the CUBE's EFX, REVERB, or DELAY to consistently conform to the foot switch's indicator, change the setting for the CUBE-40XL/CUBE-80XL to "Foot Switch Priority Mode." For details, see "Using a Latch-type Foot Switch" (p. 10).

Returning to the Factory-default Settings

Hold down the [TAP/STOP] switch and the SOLO [ON/OFF] switch at the same time and switch on the power. The SOLO indicator blinks and the settings saved with the SOLO function are returned to their factory defaults.

Using the LOOPER

This function lets you record a phrase you perform, and then play it back repeatedly. You can also overdub additional phrases onto the recording.

On the CUBE-40XL and CUBE-80XL, this is called the Looper function.

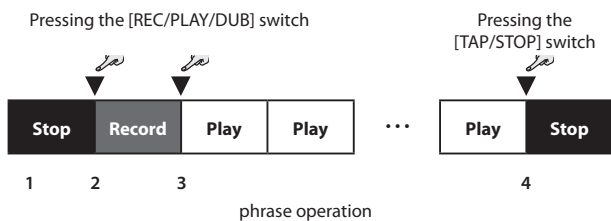
You can also operate the LOOPER function using optional foot switches.

* The recorded phrase is deleted when the unit is turned off.

Recording a Phrase

Press the [REC/PLAY/DUB] switch to recording a phrase.

The basic operation will change as follows according to the state of the phrase.



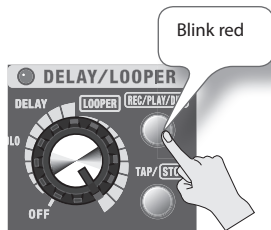
1. Set the [DELAY/LOOPER] knob at LOOPER.

Set the knob at the maximum setting. With the knob at the maximum, the phrase will be played back at the same volume as when it was recorded.



2. Press the [REC/PLAY/DUB] button to start recording.

When you press the [REC/PLAY/DUB] switch it will blink red, and you'll enter recording-standby mode. When you start playing, the indicator will change from blinking to steadily lit, and recording will begin.



* If instead you depress the REC/PLAY/DUB footswitch, the [REC/PLAY/DUB] switch lights in red, and recording starts immediately. For details on connecting footswitches, refer to "FOOT SW" (p. 9).

The memory of the CUBE-40XL and CUBE-80XL can record a phrase approximately 80 seconds long. When you reach the maximum recording time, recording will stop automatically and playback will start.

3. Press the [REC/PLAY/DUB] switch to stop recording.

At the same time that you press the [REC/PLAY/DUB] switch, the [REC/PLAY/DUB] switch lights in green and the recorded phrase will switch to playback.

The phrase will continue playing repeatedly until you stop it.

4. To stop playback or overdubbing, press the [TAP/STOP] button.

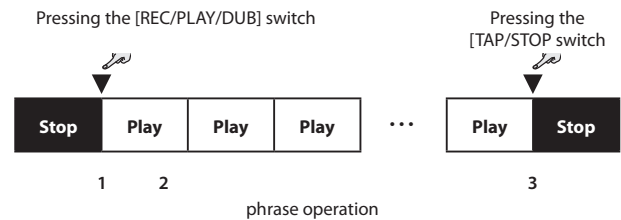
The phrase will stop playing.

If you want to play again, press the [REC/PLAY/DUB] switch.

MEMO

If a phrase has already been recorded, the PLAY indicator will blink green.

Playing back the phrase



1. With the [REC/PLAY/DUB] switch blinking green, press the [REC/PLAY/DUB] switch.

* [REC/PLAY/DUB] will be unlit if no phrase has been recorded.

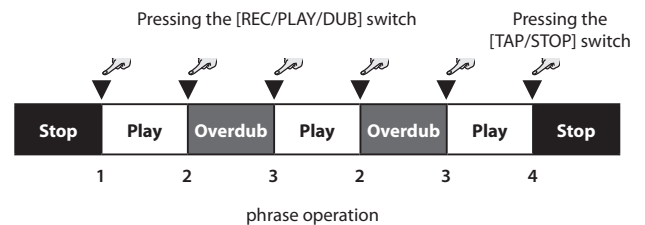
The [REC/PLAY/DUB] switch will light in green, and the phrase will play repeatedly from the beginning.

2. Use the [DELAY/LOOPER] knob to adjust the volume of the phrase.

3. Press the [TAP/STOP] switch to stop playback.

The [REC/PLAY/DUB] switch will blink green.

Overdubbing the phrase



1. With the [REC/PLAY/DUB] switch blinking green, press the [REC/PLAY/DUB] switch.

The [REC/PLAY/DUB] switch will light in green, and the phrase will play repeatedly from the beginning.

2. Press the [REC/PLAY/DUB] switch once again.

The [REC/PLAY/DUB] switch will light in orange, and overdubbing will begin.

3. To stop recording, press the [REC/PLAY/DUB] switch.

The [REC/PLAY/DUB] switch will light in green, and the phrase will play repeatedly from the beginning.

4. Press the [TAP/STOP] switch to stop playback.

The [REC/PLAY/DUB] switch will blink green.

Erasing the phrase

1. Hold down the [TAP/STOP] switch for two or more seconds.

The [REC/PLAY/DUB] switch will blink red, and the phrase will be erased.

* The erased phrase cannot be recovered.

Using the LOOPER Function and Delay at the Same Time

By taking advantage of the SOLO function, you can use the Looper function and the delay at the same time.

Normally, you cannot use the delay when the [DELAY/LOOPER] knob is in the LOOPER position. However, if panel settings that use the delay are stored in the SOLO function, and you then turn SOLO on, you'll be able to use the delay while using the LOOPER function.

If you turn the SOLO function on while using the LOOPER function, and then switch between JC CLEAN and LEAD, you'll be able to record your performance using the delay settings saved for each channel.

* Switching the delay on or off or changing the delay time is not possible.

Copyright

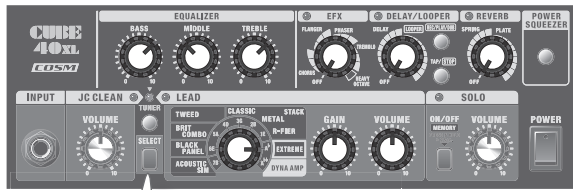
- * Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- * Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

Sample Settings

* For information on how to set the delay time, refer to "DELAY/LOOPER" (p. 6)

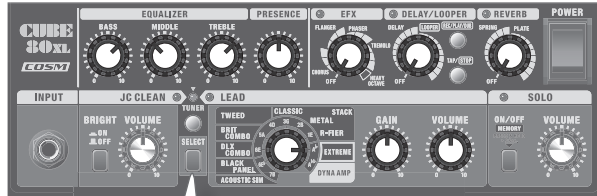
Extreme

CUBE-40XL



[SELECT] switch=LEAD

CUBE-80XL



[SELECT] switch=LEAD

This is an extreme sound with intense distortion.

This is a high-gain sound that packs a lot of punch in the low end, while delivering a great deal of edge in the upper range.

You can obtain variations in the sound by moving the [MIDDLE] knob.

If you turn on HEAVY OCTAVE, you can achieve an even greater sense of distortion in the low end.

Space Clean

CUBE-40XL

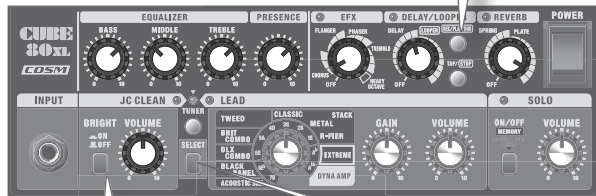
Delay time = approx. 250 ms (reference)



[SELECT] switch=JC CLEAN

CUBE-80XL

Delay time = approx. 250 ms (reference)



[BRIGHT] switch=OFF

[SELECT] switch=JC CLEAN

This is a transparent sound that uses spatial effects.

Use the JC CLEAN amp, which is modeled on the Roland JC-120, and add chorus, long delay, and reverb.

Using this setting with a guitar that has single-coil pickups makes for arpeggios and chord strumming with beautiful resonance. If you're using a guitar with humbucker pickups on CUBE-80XL, turn the [BRIGHT] switch to ON to achieve a bright, open sound.

Setting the delay time to a value that makes the delay sound heard slightly ahead of the tempo of the phrase played produces a thicker sound.

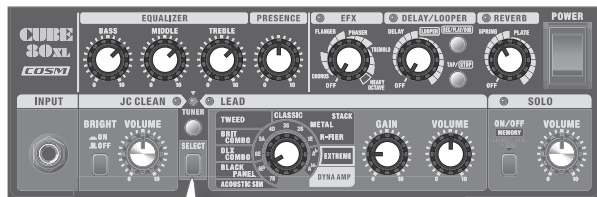
Surf Line

CUBE-40XL



[SELECT] switch=LEAD

CUBE-80XL



[SELECT] switch=LEAD

This sound is perfect for the surf music popular in the 1960s.

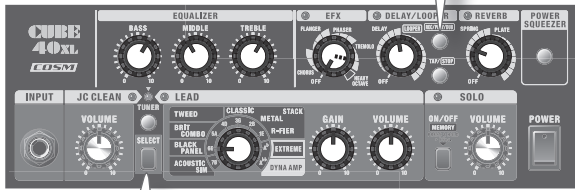
Using this setting with a guitar that has single-coil pickups makes for an edgy sound.

Applying deep spring reverb and using muting picking and chromatic runs (muted picking with glissandos) produces the classic surf sound.

Rockabilly Slap

CUBE-40XL

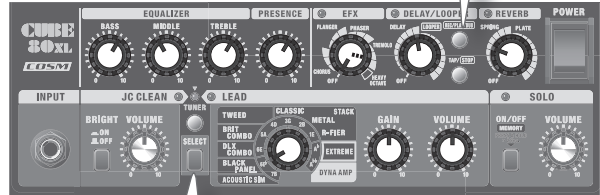
Delay time = approx. 90 ms (reference)



[SELECT] switch=LEAD

CUBE-80XL

Delay time = approx. 90 ms (reference)



[SELECT] switch=LEAD

This is the slapback-echo sound used in rockabilly and country.

The BLACK PANEL amp produces a clean sound that is bright and sweet, with a powerful midrange and high end supported by a thick bass.

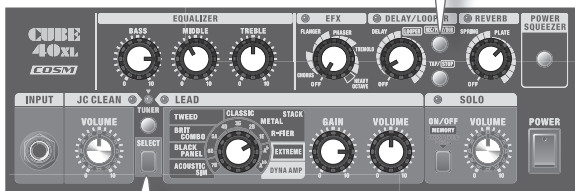
By making the low and high ends more prominent while keeping them balanced, and also suppressing the midrange if the situation calls for it, you can bring out the dazzling resonance of the guitar even more beautifully.

The sound of a guitar that has single-coil pickups with heavy tremolo and reverb applied is also distinctive.

Loud Metal

CUBE-40XL

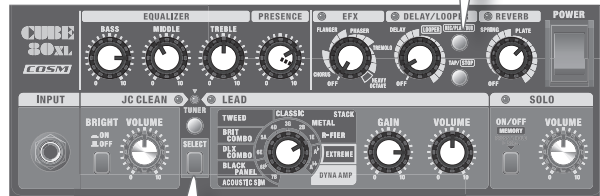
Delay time = approx. 600 ms (reference)



[SELECT] switch=LEAD

CUBE-80XL

Delay time = approx. 600 ms (reference)



[SELECT] switch=LEAD

This sound produces heavy low-end reverberations when lower strings are played while muted, and airy sustain when chords are played.

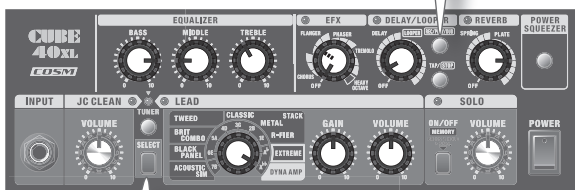
Playing with a humbucking rear pickup produces even more extreme distortion. What's more, you can make the sound even heavier by using drop tuning or other such settings.

When you want to make the distortion edgier on CUBE-80XL, boost the [PRESENCE] setting. Also, when you're using this as the lead sound, raising the midrange and applying a long delay produces a fat sound with sustain.

Dynamic Style

CUBE-40XL

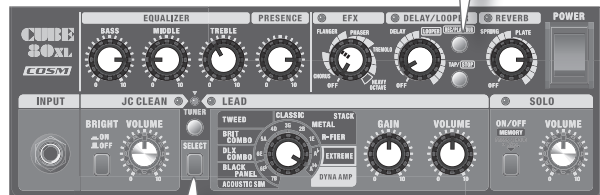
Delay time = approx. 650 ms (reference)



[SELECT] switch=LEAD

CUBE-80XL

Delay time = approx. 650 ms (reference)



[SELECT] switch=LEAD

DYNA AMP is an original amp that uses relative picking intensity to create changes in distortion depth.

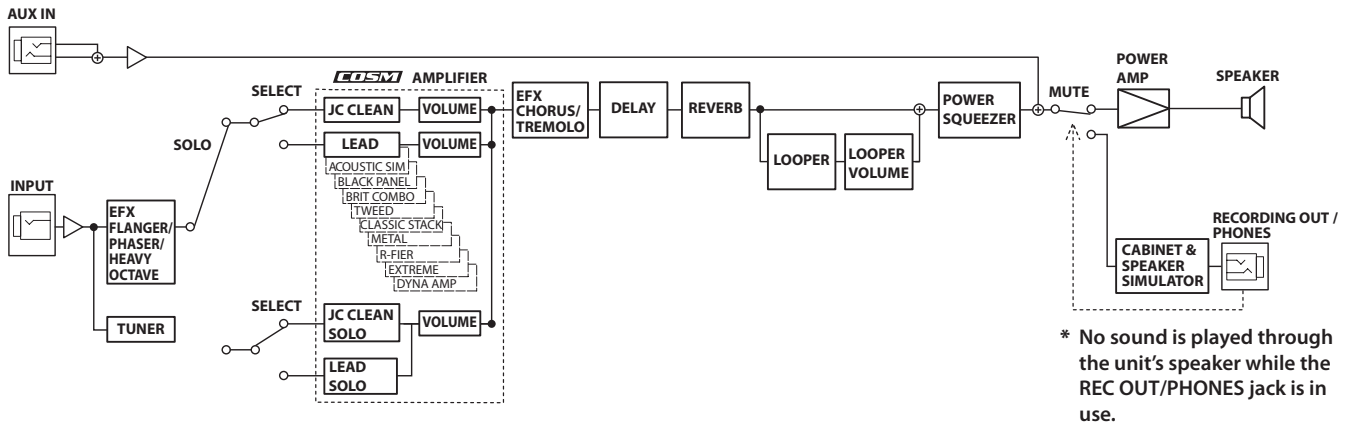
First, adjust the [GAIN] knob so that a clean tone is obtained with soft picking and heavy distortion is obtained when you pick hard.

Now mixing arpeggios played with a gentle touch along with firmly picked chords and solos results in a guitar sound with huge dynamics.

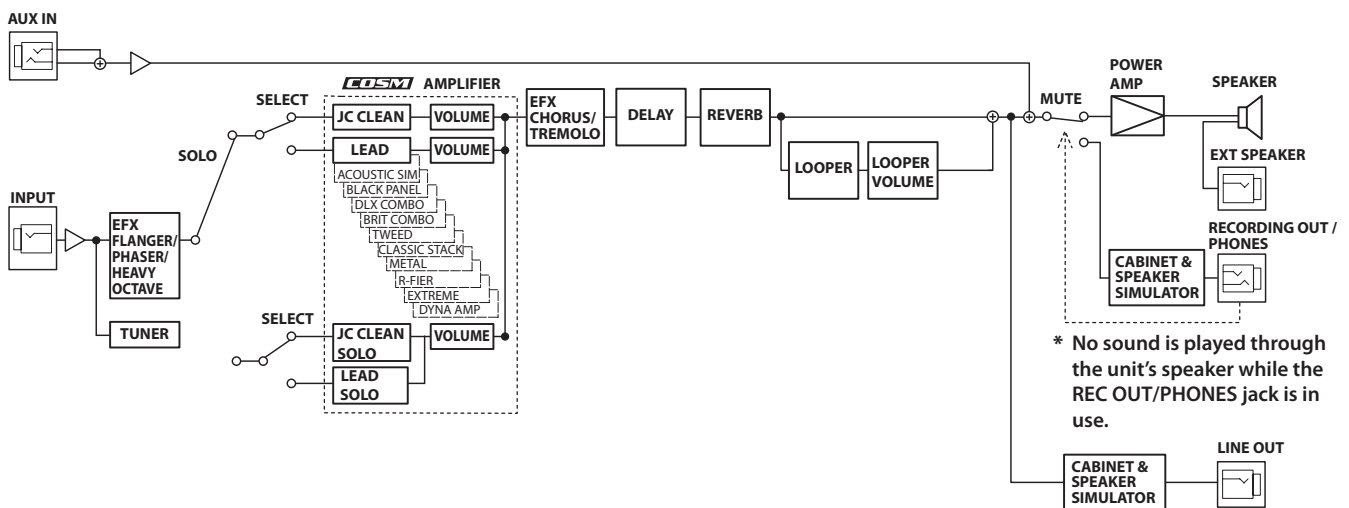
Now, to create a broader, more open sound on CUBE-80XL, cut the midrange and raise the low end and presence.

Using this in combination with the EFX as well as delay and reverb creates a sound with an even greater feeling of scale.

CUBE-40XL Block Diagram



CUBE-80XL Block Diagram



Specifications

CUBE-40XL/CUBE-80XL: Guitar Amplifier

| | CUBE-40XL | CUBE-80XL |
|--------------------------------------|---|---|
| Rated Power Output | 40 W | 80 W |
| Nominal Input Level (@ 1 kHz) | INPUT: -10 dBu/ 1 MΩ | INPUT: -10 dBu/1 MΩ |
| | AUX IN: -10 dBu | AUX IN: -10 dBu |
| Speaker | 25 cm (10 inches) | 30 cm (12 inches) |
| Controls | [POWER] switch | [POWER] switch |
| | [SELECT] switch | [SELECT] switch |
| | [TUNER] switch | [TUNER] switch |
| | [POWER SQUEEZER] switch | — |
| | <JC CLEAN CH> [VOLUME] knob | <JC CLEAN CH> [VOLUME] knob, [BRIGHT] switch |
| | <LEAD CH> Type switch (ACOUSTIC SIM, BLACK PANEL, BRIT COMBO, TWEED CLASSIC STACK, METAL STACK, R-FIER, EXTREME, DYNA AMP), [GAIN] knob, [VOLUME] knob | <LEAD CH> Type switch (ACOUSTIC SIM, BLACK PANEL, DLX COMBO, BRIT COMBO, TWEED, CLASSIC STACK, METAL STACK, R-FIER, EXTREME, DYNA AMP), [GAIN] knob, [VOLUME] knob |
| | <SOLO> [SOLO] switch, [VOLUME] knob | <SOLO> [SOLO] switch, [VOLUME] knob |
| | <EQUALIZER> [BASS] knob, [MIDDLE] knob, [TREBLE] knob | <EQUALIZER> [BASS] knob, [MIDDLE] knob, [TREBLE] knob |
| | — | <PRESENCE> [PRESENCE] knob |
| | <EFX> [EFX] knob (CHORUS, FLANGER, PHASER, TREMOLO, HEAVY OCTAVE) | <EFX> [EFX] knob (CHORUS, FLANGER, PHASER, TREMOLO, HEAVY OCTAVE) |
| | <DELAY/LOOPER> [REC/PLAY/DUB] switch [DELAY/LOOPER] knob [TAP/STOP] switch | <DELAY/LOOPER> [REC/PLAY/DUB] switch [DELAY/LOOPER] knob [TAP/STOP] switch |
| | <REVERB> [REVERB] knob (SPRING/PLATE) | <REVERB> [REVERB] knob (SPRING/PLATE) |
| | — | [FOOT SW TYPE] switch (FS-5L/FS-5U) |
| Indicators | JC CLEAN CH, LEAD CH, SOLO, TUNER, EFX, DELAY/LOOPER, REC/PLAY/DUB, REVERB, POWER SQUEEZER | JC CLEAN CH, LEAD CH, SOLO, TUNER, EFX, DELAY/LOOPER, REC/PLAY/DUB, REVERB |
| Connectors | INPUT Jack (1/4" phone type), AUX IN Jack (Stereo miniature phone type), RECORDING OUT/PHONES Jack (Stereo 1/4" phone type), FOOT SW Jack (CH SELECT, SOLO) (1/4" TRS phone type), FOOT SW Jack (EFX, REVERB) (1/4" TRS phone type), FOOT SW Jack (DELAY/REC/PLAY/DUB, TAP/STOP) (1/4" TRS phone type) | INPUT Jack (1/4" phone type), AUX IN Jack (Stereo miniature phone type), LINE OUT Jack (1/4" phone type), RECORDING OUT/PHONES Jack (Stereo 1/4" phone type), EXT SPEAKER (1/4" phone type), FOOT SW Jack (CH SELECT, SOLO) (1/4" TRS phone type), FOOT SW Jack (EFX, REVERB) (1/4" TRS phone type), FOOT SW Jack (DELAY/REC/PLAY/DUB, TAP/STOP) (1/4" TRS phone type) |
| Power Consumption | 43 W | 75 W |
| Dimensions | 385 (W) X 265 (D) X 385 (H) mm | 440 (W) x 265 (D) x 440 (H) mm |
| | 15-3/16 (W) x 10-7/16 (D) x 15-3/16 (H) inches | 17-3/8 (W) x 10-7/16 (D) x 17-3/8 (H) inches |
| Weight | 10 kg / 22 lbs 1 oz | 16 kg / 35 lbs., 5 oz. |
| Accessory | Owner's Manual | Owner's Manual |
| Options | Foot Switch (BOSS FS-5L, FS-5U, FS-6) | Foot Switch (BOSS FS-5L, FS-5U, FS-6) |

* 0 dBu = 0.775 Vrms

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

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Roland

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

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Chaudron - BP79 97 491
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TEL: (323) 890 3700

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于 2007 年 3 月 1 日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定的期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

| 部件名称 | 有毒有害物质或元素 | | | | | |
|----------------|-----------|-------|-------|-------------|-----------|-------------|
| | 铅(Pb) | 汞(Hg) | 镉(Cd) | 六价铬(Cr(VI)) | 多溴联苯(PBB) | 多溴二苯醚(PBDE) |
| 外壳(壳体) | × | ○ | ○ | ○ | ○ | ○ |
| 电子部件(印刷电路板等) | × | ○ | × | ○ | ○ | ○ |
| 附件(电源线、交流适配器等) | × | ○ | ○ | ○ | ○ | ○ |

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
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For EU Countries



- UK** This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.
- DE** Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit dem Hausmüll entsorgt werden.
- FR** Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.
- IT** Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- ES** Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como está regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.
- PT** Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.
- NL** Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.
- DK** Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.
- NO** Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

- SE** Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.
- FI** Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.
- HU** Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- PL** Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- CZ** Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- SK** Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhazovať spolu s domovým odpadom.
- EE** See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olemprügiga.
- LT** Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinėti produktai neturi būti išmetami kartu su buitiniomis atliekomis.
- LV** Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produkts ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- SI** Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinskimi odpadki.
- GR** Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.



This product complies with the requirements of EMCD 2004/108/EC and LVD 2006/95/EC.

For EU Countries

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For the USA

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For Canada



WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

For C.A. US (Proposition 65)

MEMO

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

| | |
|---|---|
|  CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR | |
| CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. | |



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CUBE-40XL

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.


CUBE-80XL

For the U.K.

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Roland

